

AI Engineer (confirmé) with **3 years of professional and independent experience** building LLM, RAG and agentic systems (**4.5+ years in AI/ML** including research). Specialized in production LLM, RAG and agentic AI, with experience spanning retrieval, model serving, inference optimization, orchestration, cloud deployment and evaluation. Delivered **3× LLM inference throughput at 47% lower cost**, built multi-agent systems for finance, and currently develop AI accelerators within ALTEN's **A3**.

Experience

AI Engineer Confirmé — A³ (AI at ALTEN)
ALTEN Group — AI for Management System & Accelerators

June 2026 — Present
Rabat, Morocco

- **Product delivery: live in 3 months, 101 active users.** Built and productionized an AI references-discovery platform (React, FastAPI, pgvector, Azure) for ALTEN's sales teams and directors; 1,103 searches in early rollout.
- **RAG quality: 80% R@1, 90% R@5, 0.85 MRR.** Built the RAG pipeline (Mistral OCR and embeddings, OpenAI fallback) with an LLM reranker that picks the best client references and explains each choice; 100-question internal eval.
- **Evaluation-driven quality.** Built the platform's evaluation harness (retrieval metrics, LLM-reranker checks) and championed eval-driven development across A³, surfacing the need for AI governance to the Chief AI Office.

AI Engineer
Independent — R&D & Open Source

Feb. 2026 — June 2026
Paris, France

- **Open source: codibox on PyPI.** Docker-sandboxed Python execution engine with namespace isolation, a drop-in tool for safe AI code execution in LangGraph.
- **Multi-agent automation: research 3 h → 15 min.** Designed a real estate platform (LangChain deepagents, 6 subagents, 15+ custom tools) for valuation, ROI, and market research.
- **GraphRAG for financial due diligence.** Built a Neo4j platform with hybrid vector/full-text retrieval over a large financial document corpus for LLM due diligence, compliance, and risk Q&A.

AI Engineer · (Fixed-term contract)
Impactera — Financial Consulting (ESG & data intelligence)

Feb. 2025 — Feb. 2026
Paris, France (Remote)

- **Workflow automation: reports in 30 min, not half a day.** Architected a supervisor-based multi-agent platform (LangGraph, 6 subagents, FastAPI, Docker) spanning document RAG, live API/NL-to-SQL access, web research, and report generation.
- **Reliable RAG: audit-ready answers.** Built a self-correcting pipeline (Qdrant) with semantic chunking, relevance grading, hallucination checks, source attribution, and auto-fallback; shaped by CEO and finance-consultant needs.
- **Multi-LLM routing: 5 providers, auto-fallback.** Engineered routing across OpenAI, Anthropic, Gemini, Groq, and Bedrock with async checkpointing.
- **API orchestration: agents built at runtime.** Built a nested agent that constructs tool-calling agents from OpenAPI specs (Tagetik CPM, client systems), OAuth-secured.

Founding AI Engineer · (Fixed-term contract)
Tetricks — AI Solutions for Hospitality (École Polytechnique-backed)

June 2023 — June 2024
Remote

- **Inference optimization: 3× throughput, 47% lower cost.** Engineered a vLLM serving stack with AWQ/GPTQ quantization and dynamic batching vs. baseline serving.
- **Vision-LLM delivery: deployed on GCP.** Led integration for automated hotel room descriptions, with the CEO and Dev team; secured Bpifrance innovation funding.
- **Domain fine-tuning: 12+ intents in production.** Fine-tuned Llama 2 on hospitality data for guest intent detection, deployed into production guest-messaging workflows.
- **Multimodal RAG on GCP.** Built a chatbot (Vertex AI + Cloud Run) with a Pydantic-enforced ingestion pipeline and hybrid vector/lexical retrieval with reranking.

ML Research Assistant
Ibn Tofaïl University — Research Lab

Jan. 2022 — June 2023
Kenitra, Morocco

- **Medical RAG: source-cited clinical Q&A.** Developed a chatbot (Meditron 7B, Qdrant, PubMedBERT) reducing hallucination risk via source-cited retrieval.
- **Dialect classification: 94.5% accuracy.** Built North, a North African dialect classifier (scikit-learn + fine-tuned BERT) for Arabic and Arabizi.
- **Computer vision: 90% average precision.** Benchmarked state-of-the-art architectures on FER2013; 20% generalization gain via augmentation and regularization.

Leadership & Community

Founder & President
1337 AI — Educational Organisation

Oct. 2019 — Jan. 2022
Ben Guerir, Morocco

- **Community building: 300 members.** Founded and scaled an AI engineering community; ran 2 bootcamps and 6 workshops on Python, ML, and generative AI.
- **Hackathon mentoring.** Co-mentor at [ThinkAI 2023](#) and [HackAI 2024–25](#), alongside Hugging Face and Mistral mentors.

Technical Skills

Agentic AI

LangGraphLangChainCrewAI

Google ADKDSPyMCPAgentic RAG

RAG & Document Intelligence

RAGGraphRAGHybrid SearchReranking

QdrantNeo4jpgvector

Document AI / OCRVLMsMultimodal Retrieval

LLM Engineering

vLLMAWQ/GPTQLoRA/QLoRA

Inference OptimizationMulti-LLM Routing

Structured GenerationFine-Tuning

Evaluation & Observability

RAGASLangSmithArize Phoenix

LLM-as-JudgeAgent Evaluation

OpenTelemetryPrometheusGrafana

AI Systems, Cloud & MLOps

AzureGCPAWSDockerkubernetes

TerraformCI/CDAzure DevOps

MLflowGitOps

Security & Governance

LLM Red-TeamingGuardrails

Prompt-Injection Defense

Programming

PythonFastAPIPydanticSQL

C++CUDAPyTorch

Education

IT Architecture Expert — Data Architecture
RNCP Level 7 · École 42 Paris, Paris, France

Master's in Artificial Intelligence
Ibn Tofaïl University, Kénitra, Morocco

BSc (Licence) in Computer Science
Ibn Tofaïl University, Kénitra, Morocco

Digital Tech Architect — Common Core
École 1337, UM6P, Ben Guerir, Morocco

Baccalauréat, Mathematical Sciences A,
Morocco

Academic Experience

Systems & Hardware-Accelerated AI ·
École 42 ParisOct. 2024 — Feb. 2025

- Built a **CUDA-accelerated C/C++ linear algebra engine** (matrix ops, inverses, determinants).
- **Inception of Things: K3s/K3D clusters** with ArgoCD GitOps and GitLab CI/CD.

Certifications

GCP AI InfrastructureGoogle Cloud 2026

GPU ProgrammingJohns Hopkins 2026

GenAI Winter SchoolÉcole Polytechnique 2024

Red Teaming LLM AppsDeepLearning.AI 2025

LangGraphLangChain 2025

Advanced RAGDeepLearning.AI 2024

Deep Learning SpecializationDL.AI 2020

Open Source & Projects

🐙 **codibox** — sandboxed Python exec for agents · PyPI

🐙 **Real Estate Deep Agents** — multi-agent

🐙 **AgenticDataAnalyst** — NL-to-Python

Languages

Arabic (native) · **English** (full professional)
French (professional working)